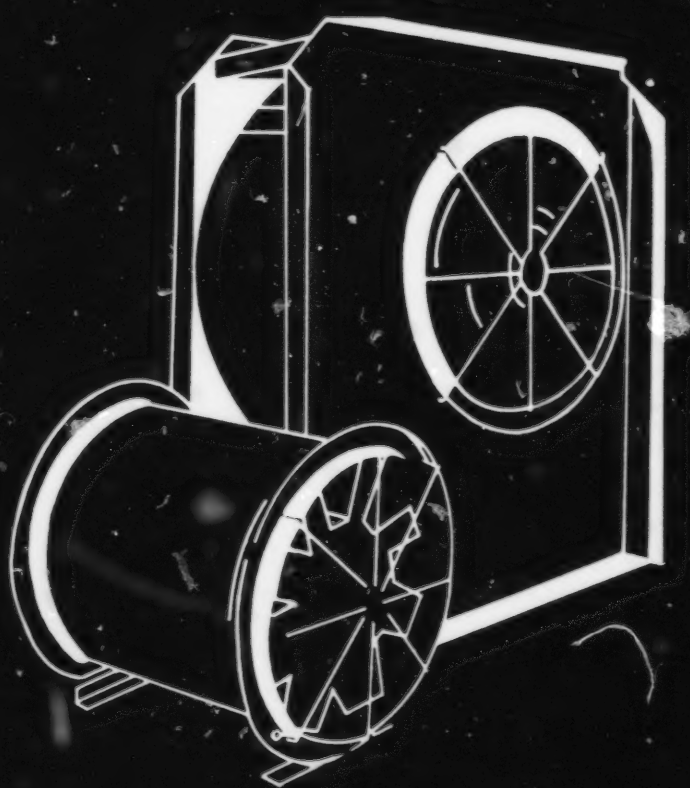
Manitoba Agriculture

Fan Test Results



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Manitoba Agriculture

Fan Test Results

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A Note On The Fan Test Data

The fan performance data in this publication were obtained in tests conducted by the Engineering Section of Manitoba Agriculture, in co-operation with the Agricultural Engineering Department of the University of Manitoba, and by the Prairie Agricultural Machinery Institute (PAMI) at Lethbridge, Alberta. The Manitoba tests were conducted in accordance with the procedures outlined in the Air Moving and Conditioning Association, Standard 210-74. The PAMI tests were conducted using an outlet chamber setup and test procedures developed by the Machinery Institute. Additional details on the fan tests conducted by PAMI are available in individual test reports.

The fans were obtained from dealers, farmers, and manufacturers, and were tested without alterations and with the inlet screens in place. In most cases, only one fan of each make and model was tested. Other fans of the same make and model may have slightly different outputs. Fan performance results were adjusted to a standard air density of 1.20 kg/m^3.

These fan test results can be used with the fan selection procedure outlined in the Manitoba Agriculture publication ***Grain Aeration and Unheated Air Drying.*** Complete design and operation instructions for grain aeration, cooling, and unheated air drying are given in the above publication.

The fan data are also included in a Manitoba Agriculture computer program which will select suitable fan sizes for specific conditions, or predict the airflows produced by given fans with specified grains and bin sizes. The ID number listed for each of the fans is used in the computer program.

CSA Certification

The Manitoba Electrician's Licence Act requires that all electric fans are to be CSA certified or approved by Manitoba Labour. Manitoba-tested fans that were not CSA certified as of November 1, 1983, and PAMI tested fans that were not CSA certified as of July 1, 1986, are identified.

Conversion Factors

1 HP = 746 watts
1 inch = 25.4 mm
1 inch of water = 250 Pa (pascals)
1 cubic foot per minute = 0.47 L/s

Adventer Centrifugal Fans

3450 rev/min

Outputs in litres per second (L/s)

ID No.	*2101*	*2102*
Static Pressure	**2 HP**	**3 HP**
250 Pa	570	660
375	570	610
500	520	575
625	480	540
750	440	500
875	410	460
1000	360	410
1125	300	355
1250	230	245
1375	130	105
1500	40	70
1625	0	30

Tested by PAMI

Aerovent Axial Fans

3450 rev/min

Outputs in litres per second (L/s)

ID No.	*101*	*102*	*103*	*104*	*105*
	⅓ HP	1 HP	1.5 HP	3 HP	7.2 HP
Static Pressure	**12″ dia**	**14″ dia**	**18″ dia**	**18″ dia**	**24″ dia**
125 Pa	680	1360	2280	3070	5240
250	500	900	1890	2670	4820
375	310	620	1450	2010	4370
500	170	380	1000	1300	3910
625	30	160	590	640	3360
750	0	0	300	190	2820
875			80	0	2300
1000			0		1780
1125					1300
1250					840
1375					400
1500					70
1625					0

Airmaster (Gold-N-Air) Fans

3450 rev/min

Outputs in litres per second (L/s)

	Axial Fans		Tubular Centrifugal	Centrifugal Fans		
ID No.	*201*	*202*	*203*	*204*	*205*	*206*
Static Pressure	4 HP 18″dia	7 HP 24″dia	7 HP	5 HP	7.5 HP	10 HP
125 Pa	2610	4740	2140	1690	1940	2750
250	2450	4470	2100	1630	1910	2710
375	2260	4190	2050	1580	1870	2670
500	2040	3900	1990	1540	1840	2630
625	1770	3590	1920	1510	1810	2590
750	1480	3230	1850	1470	1780	2550
875	1190	2880	1780	1440	1750	2510
1000	950	2450	1720	1410	1720	2450
1125	780	2020	1650	1370	1700	2400
1250	610	1670	1580	1330	1660	2350
1375	430	1360	1510	1290	1630	2320
1500	240	1060	1430	1250	1590	2290
1625	40	770	1340	1210	1550	2260
1750	0	490	1240	1150	1510	2210
1875		230	1130	1080	1470	2160
2000		0	740	1020	1430	2110
2250			0	900	1350	2040
2500				630	1270	1930
2750				0	1180	1830
3000					1100	1740
3250					1020	1560
3500					770	1390
3750					0	830

American Farm Products Axial Fans

3450 rev/min

Outputs in litres per second (L/s)

ID No.	*1701**	*1702**
Static Pressure	**1.5 HP 12″ dia**	**1.5 HP 18″ dia**
125 Pa	930	2120
250	640	1910
375	290	1690
500	140	1360
625	30	1020
750	0	720
875		510
1000		310
1125		110
1250		0

**Not CSA certified*

Behlen Axial Fans

(1982 Series)

3450 rev/min

Outputs in litres per second (L/s)

ID No.	*304*	*305*	*306*	*307*	*308*
	¾ HP	1 HP	2 HP	4 HP	7 HP
Static Pressure	12″ dia	14″ dia	18″ dia	18″ dia	24″ dia
125 Pa	920	1160	2030	2680	4740
250	400	820	1780	2460	4470
375	220	590	1480	2210	4190
500	100	440	1170	1940	3900
625	0	320	870	1620	3590
750		140	610	1320	3230
875		30	390	1060	2880
1000		0	200	890	2450
1125			20	750	2020
1250			0	580	1670
1375				390	1360
1500				170	1060
1625				0	770
1750					490
1875					230
2000					0

Butler Axial Fans

3450 rev/min

Outputs in litres per second (L/s)

ID No.	*1501*	*1502*	*1503*	*1504*
Static Pressure	**¾ HP 12″ dia**	**1.5 HP 18″ dia**	**3 HP 18″ dia**	**5.3 HP 24″ dia**
125 Pa	790	2070	2760	4130
250	390	1790	2560	3860
375	260	1490	2250	3600
500	150	1210	1890	3350
625	20	930	1440	3050
750	0	660	1040	2740
875		430	860	2340
1000		220	700	1960
1125		0	570	1670
1250			420	1380
1375			260	1080
1500			90	790
1625			0	560
1750				370
1875				140
2000				0

Caldwell Axial Fans

3450 rev/min

Outputs in litres per second (L/s)

ID No.	*401*	*402*	*403**	*404***	*405*	*406*	*407*
Static Pressure	**¾ HP 12″ dia**	**1.5 HP 18″ dia**	**3-4 HP 18″ dia**	**3-4 HP 18″ dia**	**5-7 HP 24″ dia**	**7.5-9.2 HP 24″ dia**	**10.5 HP 24″ dia**
125 Pa	920	2240	2710	2730	5810	5000	6210
250	400	1900	2480	2510	5400	4710	5870
375	240	1590	2080	2290	4960	4390	5470
500	110	1260	1650	1950	4590	4050	5060
625	0	950	1250	1360	4090	3680	4500
750		640	960	1060	3510	3290	3780
875		400	710	850	2840	2860	3050
1000		200	520	710	2270	2460	2420
1125		0	360	560	1820	2090	1880
1250			190	420	1410	1720	1460
1375			20	290	1030	1480	1030
1500			0	160	710	1260	620
1625				30	380	1050	220
1750				0	50	840	0
1875					0	630	
2000						400	
2125						170	
2250						0	

**Fans built before 1982*

***Fans built in 1982 or later*

Caldwell Centrifugal Fans

Outputs in litres per second (L/s)

	1750 rev/min		3450 rev/min				
ID No.	*408*	*409*	*410*	*411*	*412*	*413*	*414*
Static Pressure	**5 HP**	**7.5 HP**	**3 HP**	**5 HP**	**7.5 HP**	**10 HP**	**15 HP**
125 Pa	3690	4550	1200	1710	2100	2790	4140
250	3580	4430	1170	1680	2060	2740	4130
375	3440	4300	1150	1650	2020	2690	4050
500	3290	4160	1130	1620	1980	2640	3970
625	3130	4010	1110	1590	1950	2600	3900
750	2980	3850	1080	1560	1920	2550	3860
875	2810	3670	1050	1520	1880	2510	3830
1000	2600	3490	1020	1490	1850	2460	3790
1125	2400	3320	990	1450	1810	2420	3740
1250	2230	3110	960	1410	1780	2380	3690
1375	1650	2910	930	1370	1750	2340	3630
1500	840	2610	900	1330	1720	2300	3580
1625	60	1720	870	1290	1690	2260	3530
1750	0	0	830	1240	1660	2230	3480
1875			800	1170	1630	2190	3420
2000			760	1110	1600	2140	3350
2250			610	770	1530	2060	3210
2500			0	0	1440	1980	3070
2750					1360	1880	2900
3000					1260	1740	2720
3250					1070	1570	2460
3500					550	620	1660
3750					40	0	0

Caldwell In-Line Centrifugal Fans

3450 rev/min

Outputs in litres per second (L/s)

ID No.	*415*	*416*	*417*	*418*
	1.5 HP	**3 HP**	**5 HP**	**10 HP**
Static Pressure	**18″ dia**	**24″ dia**	**24″ dia**	**28″ dia**
125 Pa	1240	2010	2750	
250	1190	1960	2720	3760
375	1140	1900	2650	
500	1080	1860	2570	3610
625	1030	1830	2480	
750	980	1790	2390	3460
875	930	1730	2320	
1000	860	1660	2250	3300
1125	730	1580	2170	
1250	510	1520	2100	3140
1375	110	1470	1990	
1500	0	1420	1850	2980
1625		1350	1640	
1750		1210	1340	2820
1875		930	860	
2000		220	240	2650
2250		0	0	2480
2500				2280
2750				2030
3000				500

Tested by PAMI

Chicago Eastern (FSC) Fans

3450 rev/min

Outputs in litres per second (L/s)

	Axial Fans				Centrifugal	
ID No.	*501*	*502*	*503*	*504*	*505*	*506*
	1 HP	1.5-2 HP	3-4 HP	5-7 HP	3 HP	7.5 HP
Static Pressure	14″ dia	18 3/8″ dia	18 3/8″ dia	22½″ dia	3450 rev/min	
125 Pa	1130	2450	3530	4670	1490	2830
250	930	2270	3290	4420	1460	2770
375	690	2000	3040	4170	1410	2720
500	520	1680	2770	3870	1350	2660
625	370	1310	2400	3560	1300	2600
750	230	970	1700	3260	1250	2540
875	100	710	1250	2860	1200	2480
1000	0	490	1000	2440	1150	2420
1125		290	810	1970	1090	2360
1250		150	620	1630	1030	2290
1375		10	300	1370	960	2230
1500		0	0	1110	910	2170
1625				860	840	2100
1750				620	760	2020
1875				370	670	1940
2000				130	590	1850
2250				0	190	1700
2500						1530
2750						1360
3000						1210
3250						840
3500						0

CML Northern Blower Centrifugal Fans

SQAD Series — 3450 rev/min

Outputs in litres per second (L/s)

ID No.	*1601*	*1602*	*1603*
Static Pressure	**3 HP**	**5 HP**	**7.5 HP**
125 Pa	1710	2290	3020
250	1670	2220	2960
375	1620	2160	2890
500	1560	2100	2830
625	1490	2040	2760
750	1400	1980	2690
875	1330	1930	2610
1000	1270	1860	2530
1125	1210	1790	2460
1250	1140	1720	2360
1375	1080	1640	2270
1500	1020	1560	2180
1625	940	1490	2100
1750	860	1410	2020
1875	690	1310	1960
2000	490	1180	1910
2250	0	770	1790
2500		0	1660
2750			1480
3000			620
3250			0

Emerson South
Tubular Centrifugal Fans

3450 rev/min

Outputs in litres per second (L/s)

ID No.	*1301*	*1302*
	4.5 HP	**4.5 HP**
Static Pressure	**18″ outlet cone**	**24″ outlet**
125 Pa	2410	2350
250	2340	2300
375	2260	2230
500	2190	2160
625	2110	2080
750	2030	2010
875	1930	1940
1000	1840	1860
1125	1730	1770
1250	1620	1690
1375	1510	1600
1500	1400	1510
1625	1230	1420
1750	900	1070
1875	580	710
2000	230	380
2125	0	50
2250		0
	discontinued	1982 model

Farm Fans

3450 rev/min

Outputs in litres per second (L/s)

	Tube Axials				Vane Axials		Centrifugal Fan
ID No.	*601*	*602*	*603*	*604*	*605*	*606*	*607*
	½ HP	1 HP	1.5 HP	3 HP	3 HP	5 HP	5 HP
Static Pressure	12″ dia	14″ dia	16″ dia	18″ dia	16″ dia	24″ dia	3450 rev/min
125 Pa	740	1110	1840	2810	2760	5060	1680
250	430	820	1620	2490	2620	4790	1650
375	350	570	1380	2220	2470	4400	1610
500	270	430	1120	1900	2260	3980	1560
625	180	290	850	1510	2010	3490	1500
750	80	160	660	1180	1490	2860	1460
875	0	50	370	880	1100	2200	1430
1000		0	80	550	980	1880	1400
1125			0	150	870	1510	1370
1250				0	770	1060	1330
1375					670	590	1300
1500					520	120	1260
1625					360	0	1230
1750					200		1200
1875					30		1160
2000					0		1120
2250							1010
2500							690
2750							0

Flaman In-Line Centrifugal Fan

3450 rev/min

Outputs in litres per second (L/s)

ID No.	*2303*
	3 HP
Static Pressure	**18" dia**
125 Pa	1940
250	1890
375	1810
500	1740
625	1670
750	1590
875	1510
1000	1430
1125	1340
1250	1240
1375	1130
1500	1010
1625	900
1750	570

Tested by PAMI

Helifoil Axial Fans

3450 rev/min

Outputs in litres per second (L/s)

ID No.	*701*	*702*	*703**	*704***	*705*	*706*	*707*
Static Pressure	**¾ HP 12″ dia**	**1.5 HP 12″ dia**	**3 HP 18″ dia**	**3 HP 18″ dia**	**5 HP 18″ dia**	**5 HP 24″ dia**	**7.5 HP 24″ dia**
125 Pa	860	780	2750	2570	3110	4820	5240
250	450	370	2560	2280	2870	4530	5030
375	280	210	2310	1850	2420	4130	4560
500	140	90	1870	1370	1860	3680	4110
625	10	0	1350	1040	1190	3230	3660
750	0		1070	810	930	2790	3200
875			880	630	770	2340	2730
1000			700	440	610	1860	2290
1125			520	280	450	1450	1890
1250			350	140	270	1070	1510
1375			170	0	90	750	1140
1500			0		0	460	800
1625						170	480
1750						0	160
1875							0

** 1983 model*

*** Prior to 1983*

Helifoil Centrifugal Fans

3450 rev/min

Outputs in litres per second (L/s)

ID No.	*708*	*709*	*710*
Static Pressure	3 HP	5 HP	7.5 HP
250 Pa	1520	1850	2400
375	1460	1820	2350
500	1420	1780	2290
625	1370	1760	2240
750	1310	1740	2170
875	1250	1700	2110
1000	1190	1650	2050
1125	1120	1630	1990
1250	1040	1600	1920
1375	940	1560	1850
1500	820	1510	1740
1625	350	1450	1640
1750	0	1380	1530
1875		1310	1430
2000		1240	1310
2250		1090	1080
2500		0	850
2750			0

Hutch-Air Axial Fans

3450 rev/min

Outputs in litres per second (L/s)

ID No.	*801*	*802*	*803*	*804*
	¾ HP	1 HP	1.5 HP	3 HP
Static Pressure	12″ dia	14″ dia	18″ dia	18″ dia
125 Pa	830	1390	2150	2650
250	450	1100	1830	2380
375	300	740	1450	2130
500	190	580	1070	1610
625	80	450	750	1170
750	0	320	510	870
875		180	280	630
1000		40	40	430
1125		0	0	230
1250				30
1375				0

Impel-Aire (Feed Rite Mills) Axial Fans

3450 rev/min

Outputs in litres per second (L/s)

ID No.	*1901*	*1902*	*1903*
	1 HP	**4 HP**	**7 HP**
Static Pressure	**14″ dia**	**18″ dia**	**24″ dia**
125 Pa	1160	2680	4740
250	820	2460	4470
375	590	2210	4190
500	440	1940	3900
625	320	1620	3590
750	140	1320	3230
875	30	1060	2880
1000	0	890	2450
1125		750	2020
1250		580	1670
1375		390	1360
1500		170	1060
1625		0	770
1750			490
1875			230
2000			0

Keho Centrifugal Fans

3450 rev/min

Outputs in litres per second (L/s)

	Forward Curved Blades			Backward Curved Blades	
ID No.	*901*	*902*	*903*	*904**	*905***
Static Pressure	1 HP	2 HP	3 HP	3 HP	3 HP
125 Pa				1250	1890
250				1210	1870
375				1160	1810
500	390	540	630	1120	1740
625	380	510	620	1080	1670
750	370	500	610	1030	1600
875	350	490	580	980	1540
1000	330	460	560	930	1470
1125	300	430	530	880	1410
1250	260	380	500	820	1340
1375	140	320	460	770	1270
1500	0	0	420	720	1200
1625			330	660	1130
1750			220	570	1060
1875			90	480	980
2000			0	370	900
2250				0	690
2500					450
2750					0

** Up to serial no. H3-00800*

*** Serial no. H3-00800 and later*

Keho Centrifugal Fans

3450 rev/min

Outputs in litres per second (L/s)

	Backward Curved Blades			
ID No.	*906**	*907***	*908****	*909****
Static Pressure	**5 HP**	**5 HP**	**10 HP**	**15 HP**
125 Pa	1790	2110	3210	4180
250	1740	2110	3150	4140
375	1690	2060	3090	4060
500	1620	2010	3040	3970
625	1520	1960	2990	3890
750	1430	1910	2930	3820
875	1360	1860	2850	3740
1000	1310	1810	2770	3660
1125	1250	1750	2690	3560
1250	1200	1690	2610	3470
1375	1150	1640	2540	3370
1500	1090	1580	2450	3280
1625	1010	1520	2360	3180
1750	920	1460	2270	3090
1875	820	1400	2180	3000
2000	720	1310	2090	2900
2250	500	1110	1840	2690
2500	190	920	1580	2490
2750	0	680	1020	2230
3000		400	0	1860
3250		60		1320
3500		0		460

** Up to serial no. H5-00132*

*** Serial no. H5-00132 and later*

**** Not CSA certified*

Keho Centrifugal Fans

Outputs in litres per second (L/s)

ID No.	*910*	*911*	*912*	*913*	*914*
Model No.	**15400**	**15000**	**15751**	**Twin Blower**	**15330**
Static Pressure	**1 HP**	**2 HP**	**7.5 HP**	**10 HP**	**15 HP**
125 Pa	590				
250	560	1540	3030	4120	6700
375	525				
500	485	1400	2860	3860	6230
625	440				
750	400	1250	2690	3610	5810
875	360				
1000	310	1090	2520	3370	5430
1125	250				
1250	180	930	2340	3130	5100
1375	130				
1500	85	735	2130	2880	4720
1750	0	505	1910	2610	4230
2000		80	1680	2320	3630
2250		0	1440	1970	2970
2500			1130	1510	2360
2750			625	890	1420

Tested by PAM[1]

L.B. Moore Axial Fans

3450 rev/min

Outputs in litres per second (L/s)

ID No.	*1001**	*1002**	*1003**
	¾ HP	1.5 HP	3 HP
Static Pressure	12″ dia	18″ dia	18″ dia
125 Pa	970	2130	2730
250	440	1790	2500
375	280	1440	2070
500	150	1100	1620
625	30	810	1180
750	0	560	900
875		320	740
1000		130	570
1125		0	390
1250			220
1375			50
1500			0

**Prior to 1983*

Middle State In-Line Centrifugal Fans

3450 rev/min

Outputs in litres per second (L/s)

ID No.	*711*	*712*	*713*
Static Pressure	**3 HP 18″ dia**	**5 HP 24″ dia**	**7.5 HP 24″ dia**
125 Pa	1360	1740	2330
250	1280	1710	2180
375	1240	1660	2120
500	1190	1630	2100
625	1120	1600	2080
750	1000	1570	2030
875	975	1520	1960
1000	905	1470	1870
1125	805	1420	1780
1250	580	1360	1700
1375	85	1310	1630
1500	0	1260	1580
1625		1200	1540
1750		1130	1460
1875		1030	1300
2000		880	1030
2125		640	90

Tested by PAMI

New Products Inc. Axial Fan

3450 rev/min

Outputs in litres per second (L/s)

ID No.	*1101**
	3 HP
Static Pressure	**18″ dia.**
125 Pa	2810
250	2600
375	2330
500	2010
625	1620
750	1380
875	1140
1000	990
1125	830
1250	660
1375	500
1500	330
1625	190
1750	70
1875	0

**Not CSA certified*

Rolfes Axial Fan

3450 rev/min

Outputs in litres per second (L/s)

ID No.	*1201**
	⅕ HP
Static Pressure	**12″ dia.**
125 Pa	610
250	330
375	210
500	120
625	40
750	0

**Not CSA certified*

Sukup Fans
Outputs in litres per second (L/s)

	Axials		Centrifugals			
ID No.	*1401*	*1402*	*1403*	*1404*	*1405*	*1406*
	3450 rev/min		1750 rev/min		3450 rev/min	
Static Pressure	3.6 HP 18″ dia	5-7 HP 24″ dia	3 HP	5 HP	3 HP	15 HP
125 Pa	2690	5730	2420			
250	2550	5400	2320	3800	1260	4280
375	2400	5070	2210	3580		
500	2240	4650	2090	3420	1180	3960
625	1810	4200	1960	3230		
750	1390	3660	1830	3060	1110	3790
875	1120	3080	1630	2920		
1000	890	2440	1460	2770	1030	3630
1125	720	1950	1180	2590		
1250	530	1540	640	2280	935	3440
1375	330	1230	300	0		
1500	130	910	0		825	3110
1625	0	590				
1750		250			695	2970
1875		0				
2000					545	2760
2250					355	2600
2500					175	2500
2750					0	2410
3000						2230
3250						1750
3500						670

Fans 1403 to 1406 tested by PAMI

Vertec Centrifugal Fans

(Variable speed)

Outputs in litres per second (L/s) at maximum amperes

ID No.	*1801**	*1802**
Static Pressure	**3 HP**	**5 HP**
125 Pa		1980
250		1950
375	1480	1880
500	1480	1810
625	1480	1750
750	1440	1700
875	1370	1620
1000	1300	1550
1125	1230	1470
1250	1160	1390
1375	1080	1310
1500	990	1240
1625	890	1160
1750	790	1100
1875	690	1010
2000	**590	**770
2250	**340	**350
2500	**60	**80

**Not CSA certified*

***Maximum speed on variable sheave*

Westeel In-Line Centrifugal Fan

3450 rev/min

Outputs in litres per second (L/s)

ID No.	*2202*
	3 HP
Static Pressure	**18″ dia**
250 Pa	1800
375	1750
500	1680
625	1620
750	1570
875	1500
1000	1420
1125	1340
1250	1250
1375	1140
1500	970
1625	770
1750	420
1875	80

Tested by PAMI

Zach (Grain Troller) Fans

3450 rev/min

Outputs in litres per second (L/s)

	Axials		In-Line Centrifugals	
ID No.	*2001**	*2002**	*2003**	*2004**
	1 HP	3 HP	1 HP	3 HP
Static Pressure	12″ dia	18″ dia	12″ dia	18″ dia
125 Pa	910	2590	490	1630
250	790	2420	440	1580
375	660	2230	430	1520
500	420	2020	390	1460
625	250	1810	355	1390
750	130	1580	310	1320
875	10	1330	230	1250
1000	0	1020	135	1180
1125		680	0	1110
1250		500		1020
1375		340		925
1500		220		800
1625		100		620
1750		0		355

**Not CSA certified*

Fans 2003 and 2004 tested by PAMI